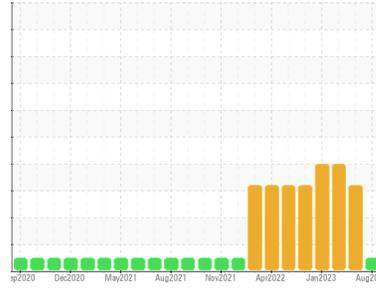




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**CATERPILLAR 374FL 8399 (S/N XWL00244)**

Component  
**Hydraulic System**  
Fluid  
**NOT GIVEN (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0837116</b>	WC0797850	WC0791055
Sample Date	Client Info		<b>08 Aug 2023</b>	15 Jun 2023	24 Feb 2023
Machine Age	hrs	Client Info	<b>11478</b>	10911	10432
Oil Age	hrs	Client Info	<b>11478</b>	10911	10432
Oil Changed	Client Info		<b>Not Changed</b>	Not Changd	Not Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>21</b>	▲ 21	▲ 21
Chromium	ppm	ASTM D5185m >10	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>9</b>	▲ 6	▲ 5
Lead	ppm	ASTM D5185m >10	<b>2</b>	<1	1
Copper	ppm	ASTM D5185m >75	<b>13</b>	13	10
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>49</b>	52	36
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>3</b>	3	3
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>34</b>	32	27
Calcium	ppm	ASTM D5185m	<b>2889</b>	2755	2513
Phosphorus	ppm	ASTM D5185m	<b>920</b>	913	743
Zinc	ppm	ASTM D5185m	<b>1184</b>	1089	865
Sulfur	ppm	ASTM D5185m	<b>5640</b>	5319	4100

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>28</b>	▲ 29	▲ 26
Sodium	ppm	ASTM D5185m	<b>2</b>	4	3
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	0

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>17335</b>	27515	81945
Particles >6µm	ASTM D7647	>1300	<b>264</b>	218	▲ 1415
Particles >14µm	ASTM D7647	>160	<b>18</b>	24	20
Particles >21µm	ASTM D7647	>40	<b>5</b>	8	4
Particles >38µm	ASTM D7647	>10	<b>0</b>	0	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>17/14	<b>15/11</b>	15/12	▲ 18/11

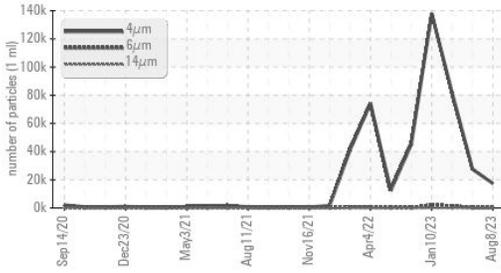
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.80</b>	0.86	0.65

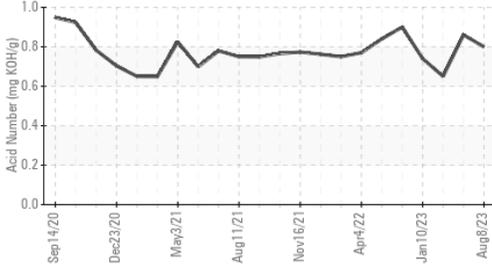


# OIL ANALYSIS REPORT

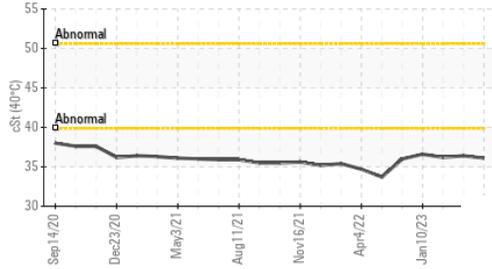
Particle Trend



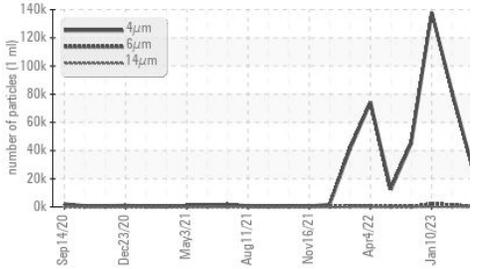
Acid Number



Viscosity @ 40°C



Particle Trend

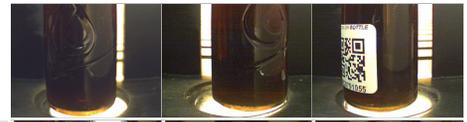


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	36.1	36.4	36.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

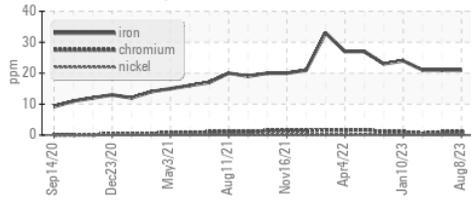


Bottom

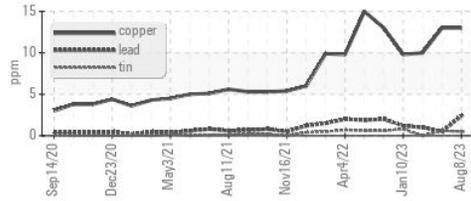


## GRAPHS

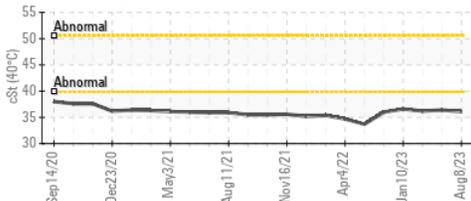
Ferrous Alloys



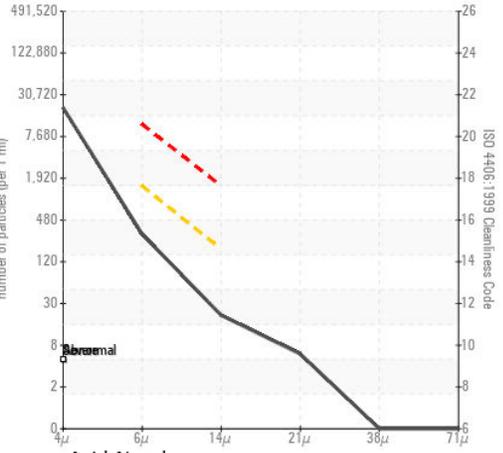
Non-ferrous Metals



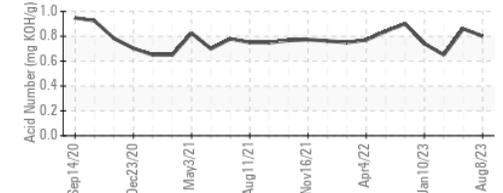
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0837116 Received : 15 Aug 2023  
 Lab Number : 05925423 Diagnosed : 17 Aug 2023  
 Unique Number : 10605370 Diagnostician : Jonathan Hester  
 Test Package : CONST

**TRADER CONSTRUCTION CO.**  
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 NEW BERN, NC  
 US 28563  
 Contact: MIKE WYATT  
 mw Wyatt@traderconstruction.com  
 T: (252)633-1399  
 F: (252)638-4871

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)